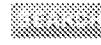



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**1 An entity maintenance and connection service for sensor networks**

Brian Blum, Prashant Nagaraddi, Anthony Wood, Tarek Abdelzaher, Sangkyu Stankovic

May 2003 *MobiSys '03: Proceedings of the 1st international conference on mobile systems, applications and services*

Publisher: ACM

Full text available: [Pdf \(294.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 51, Citation (

In this paper, we present a middleware architecture for coordination services in sensor networks that facilitates interaction between groups of sensors which monitor environmental events. It sits on top of the native routing infrastructure

**2 Preserving peer replicas by rate-limited sampled voting**

Petros Maniatis, David S. H. Rosenthal, Mema Roussopoulos, Mary Baker, Z. Muliadi

December 2003 *SOSP '03: Proceedings of the nineteenth ACM symposium on operating systems principles*

Publisher: ACM

Full text available: [Pdf \(336.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 66, Citation (

The LOCKSS project has developed and deployed in a world-wide test a system for preserving access to journals and other archival information on the Web. It consists of a large number of independent, low-cost, persistent

Keywords: digital preservation, rate limiting, replicated storage

Also published in:

December 2003 *SIGOPS Operating Systems Review* Volume 37 Issue 5

**3 Parallel simulation for aviation applications**

Frederick Wieland

December 1998 *WSC '98: Proceedings of the 30th conference on Winter simulation*

Publisher: IEEE Computer Society Press

Full text available: [Pdf \(82.27 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 18, Citation (

4 [A parallel embedded-processor architecture for ATM reassembly](#)

Richard F. Hobson, P. S. Wong

February 1999 [IEEE/ ACM Transactions on Networking \(TON\)](#) , Volume 7

Publisher: IEEE Press

Full text available:  [Pdf](#) (331.21 KB) Additional Information: [full citation](#), [references](#), [cite](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 23, Citation (

Keywords: ATM, embedded systems, medium access control, segment reassembly

5 [Data-centric storage in sensornets with GHT, a geographic hash tab](#)

Sylvia Ratnasamy, Brad Karp, Scott Shenker, Deborah Estrin, Ramesh Govindan, Yu C. Lin, and Jitendra Padhye

August 2003 [Mobile Networks and Applications](#) , Volume 8 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf](#) (255.10 KB) Additional Information: [full citation](#), [abstract](#), [referenc](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 120, Citation (

Making effective use of the vast amounts of data gathered by large-scale (sensornets) will require scalable, self-organizing, and energy-efficient content delivery algorithms. For sensornets, where the content of the data is more impo

Keywords: algorithms, distributed systems, performance, sensor networks

6 [Scalable application layer multicast](#)

 Suman Banerjee, Bobby Bhattacharjee, Christopher Kommareddy

August 2002 [SIGCOMM '02: Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communication](#)

Publisher: ACM

Full text available:  [Pdf](#) (561.69 KB) Additional Information: [full citation](#), [abstract](#), [referenc](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 62, Downloads (12 Months): 249, Citation (

We describe a new scalable application-layer multicast protocol, specific to low-bandwidth, data streaming applications with large receiver sets. Our approach is based upon a hierarchical clustering of the application-layer multicast peers ...

Keywords: application layer multicast, hierarchy, overlay networks, peer-to-peer systems, scalability

Also published in:

October 2002 [SIGCOMM Computer Communication Review](#) Volume 32 Issue 4

7 [Best-path vs. multi-path overlay routing](#)

 David G. Andersen, Alex C. Snoeren, Hari Balakrishnan

October 2003 [IMC '03: Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement](#)

Publisher: ACM

Full text available:  Pdf (142.64 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 119, Citation (

Time-varying congestion on Internet paths and failures due to software, configuration errors often disrupt packet delivery on the Internet. Many avoiding these problems use multiple paths between two network locati

Keywords: measurement, multi-path routing, networking, overlay netw

8 [Fast placement approaches for FPGAs](#)

 Russell Tessier

April 2002 *Transactions on Design Automation of Electronic Systems*, Volume 7 Issue 2

Publisher: ACM

Full text available:  Pdf (606.13 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 67, Citation (

Recent trends in FPGA development indicate a strong shift toward design the use of intellectual property (IP). This design shift has motivated the Frontier, a timing-driven FPGA placement system that uses design macro

Keywords: Computer-aided design of VLSI, field-programmable gate array synthesis

9 [ACM SIGCOMM Computer Communication Review: Volume 32 Issue 2](#)

 July 2002 *SIGCOMM Computer Communication Review*

Publisher: ACM

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation (

10 [Performance analysis of a rate-based feedback control scheme](#)

Lalita A. Kulkarni, San-qing Li

December 1998 *IEEE/ ACM Transactions on Networking (TON)*, Volume 6, Issue 6

Publisher: IEEE Press

Full text available:  Pdf (419.31 KB) Additional Information: [full citation](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 32, Citation (

Keywords: feedback control, numerical analysis, stochastic modeling, traffic performance

11 [Secure traceroute to detect faulty or malicious routing](#)

 Venkata N. Padmanabhan, Daniel R. Simon

January 2003 *SIGCOMM Computer Communication Review*, Volume 33, Issue 1

Publisher: ACM

Full text available:  Pdf (233.68 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 61, Citation (

Network routing is vulnerable to disruptions caused by malfunctioning or faulty routers that draw traffic towards themselves but fail to correctly forward the traffic. An approach to addressing this problem is to secure the routing protocol ...

**12 A signaling architecture for wireless ATM access networks**

 Nikos H. Loukas, Nikos I. Passas, Lazaros Merakos, Iakovos S. Venieris

March 2000 *Wireless Networks*, Volume 6 Issue 2

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf \(350.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 80, Citation

A multiservice wireless Asynchronous Transfer Mode (ATM) is considered from a signaling protocol viewpoint. In an attempt to generate results and experiences obtained from the specification, design, and imple

**13 An end-to-end approach to globally scalable programmable networks**

 Micah Beck, Terry Moore, James S. Plank

August 2003 *FDNA '03: Proceedings of the ACM SIGCOMM workshop on Future network architecture*

Publisher: ACM

Full text available:  [Pdf \(447.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 66, Citation

The three fundamental resources underlying Information Technology are storage, and computation. The goal of wide area infrastructure is to provide resources to enable applications within a community. The end-to-end pr

**Keywords:** Internet Backplane Protocol, Logistical Network Computing, networking, asynchronous communications, distributed state management, design, network storage, programmable networking, scalability, store and forward network

Also published in:

October 2003 *SIGCOMM Computer Communication Review* Volume 33 Issue

**14 Topology-aware overlay networks for group communication**

 Minseok Kwon, Sonia Fahmy

May 2002 *NOSSDAV '02: Proceedings of the 12th international workshop on operating systems support for digital audio and video*

Publisher: ACM

Full text available:  [Pdf \(248.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 78, Citation

We propose an application level multicast approach, Topology Aware Group (TAG), which exploits underlying network topology information to build efficient paths among multicast group members. TAG uses information about path ove

Keywords: application level multicast, network, overlay networks, rout

15 [Web100: extended TCP instrumentation for research, education and](#)

 Matt Mathis, John Heffner, Raghu Reddy

July 2003 SIGCOMM Computer Communication Review , Volume 33 Issue

Publisher: ACM

Full text available:  Pdf (215.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 60, Citation (

TCP has become the dominant protocol for all network data transport because it provides a simple uniform data delivery service which is sufficient for most application types of lower network layers. By its very nature, TCP's adaption and re

Keywords: Net100, TCP Performance, Web100, instrumentation

16 [Performance modeling of multiprocessor implementations of protocols](#)

Mats Björkman, Per Gunningberg

June 1998 IEEE/ ACM Transactions on Networking (TON) , Volume 6 Issue

Publisher: IEEE Press

Full text available:  Pdf (285.80 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 28, Citation (

Keywords: multiprocessor, parallel communication protocols, performance, queueing network model

17 [The click modular router](#)

 Eddie Kohler, Robert Morris, Benjie Chen, John Jannotti, M. Frans Kaashoek

August 2000 Transactions on Computer Systems (TOCS) , Volume 18 Issue

Publisher: ACM

Full text available:  Pdf (376.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 44, Downloads (12 Months): 292, Citation (

Clicks is a new software architecture for building flexible and configurable routers. The router is assembled from packet processing modules called elements. It is easy to implement simple router functions like packet classification, ...

Keywords: component systems, routers, software router performance

18 [SplitStream: high-bandwidth multicast in cooperative environments](#)

 Miguel Castro, Peter Druschel, Anne-Marie Kermarrec, Animesh Nandi, Amitabh Singh

December 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on distributed systems principles

Publisher: ACM

Full text available:  Pdf (847.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 38, Downloads (12 Months): 257, Citation (

In tree-based multicast systems, a relatively small number of interior nodes are responsible for forwarding multicast messages. This works well when the interior nodes are available, dedicated infrastructure routers but it poses a problem for applications that require a large number of nodes to receive the same message.

**Keywords:** application-level multicast, content distribution, end-systems, peer-to-peer, video streaming

Also published in:

December 2003 SIGOPS Operating Systems Review Volume 37 Issue 5

**19 GHT: a geographic hash table for data-centric storage**

 [Sylvia Ratnasamy](#), [Brad Karp](#), [Li Yin](#), [Fang Yu](#), [Deborah Estrin](#), [Ramesh Govindan](#), [Shenker](#)

September 2002 WSNA '02: Proceedings of the 1st ACM international workshop on sensor networks and applications

Publisher: ACM

Full text available:  [Pdf](#) (217.28 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 161, Citation

Making effective use of the vast amounts of data gathered by large-scale sensor networks will require scalable, self-organizing, and energy-efficient data dissemination methods. Previous work has identified data-centric routing as one such method. ...

**20 A measurement-based analysis of multihoming**

 [Aditya Akella](#), [Bruce Maggs](#), [Srinivasan Seshan](#), [Anees Shaikh](#), [Ramesh Sitaraman](#)

August 2003 SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communication

Publisher: ACM

Full text available:  [Pdf](#) (386.82 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 81, Citation

Multihoming has traditionally been employed by stub networks to enhance the reliability of their network connectivity. With the advent of commercial "intelligent" products, stubs now leverage multihoming to improve performance. All

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